

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit:
)
 THIEL, et al.) Examiner:
)
 Appl. No.: 10/537,507) Washington, D.C.
)
 Filed: June 3, 2005) April 19, 2006
)
 For: METHOD FOR DETERMINING) Docket No.: THIEL=3
 PREDISPOSITION TO)
 MANIFESTATION OF...) Confirmation No.: 4712

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop Missing Parts
401 Dulany Street
Alexandria, VA 22314

Sir:

In response to the Notice of Defective Response mailed March 28, 2006, please amend the application as follows:

IN THE SEQUENCE LISTING

Please substitute the attached Sequence Listing, numbered as pages 1-7 for the Sequence Listing previously submitted.

REMARKS

1. Applicants hereby submit the following:

[XX] a paper copy of a "Sequence Listing", complying with §1.821(c), to be incorporated into the specification as directed above;

[] an amendment to the paper copy of the "Sequence Listing" submitted on December 2, 2005, the amendment being in the form of substitute sheets;

[XX] the Sequence Listing in computer readable form,

complying with §1.821(e) and §1.824, including, if an amendment to the paper copy is submitted, all previously submitted data with the amendment incorporated therein;

- [] a substitute computer readable form to replace one found to be damaged or unreadable.
- [] The computer readable form in this application no. 09/... is identical with that filed on [date sequence was filed] in application no. 09/ , filed [filing date]. In accordance with 37 C.F.R. §1.821(e), please use the [first-filed, last-filed or only, whichever is applicable] computer readable form filed in that application as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the instant application. A paper copy of the Sequence Listing is [included in the originally-filed specification of the instant application, included in a separately filed preliminary amendment for incorporation into the specification, whichever is applicable].

2. The description is believed to be in compliance with §1.821(d) .

3. The undersigned attorney or agent hereby states as follows:

- (a) this submission does not include new matter [§1.821(g)];
- (b) the contents of the paper copy (as amended, if

applicable) and the computer readable form of the Sequence Listing, are the same [§1.821(f) and §1.825(b)];

- (c) if the paper copy has been amended, the amendment is supported by the specification and does not include new matter [§1.825(a)]; and
- (d) if the computer readable form submitted herewith is a substitute for a form found upon receipt by the PTO to be damaged or unreadable, that the substitute data is identical to that originally filed [§1.825(d)].

4. Under U.S. rules, each sequence must be classified in <213> as an "Artificial Sequence", a sequence of "Unknown" origin, or a sequence originating in a particular organism, identified by its scientific name.

Neither the rules nor the MPEP clarify the nature of the relationship which must exist between a listed sequence and an organism for that organism to be identified as the origin of the sequence under <213>.

Hence, counsel may choose to identify a listed sequence as associated with a particular organism even though that sequence does not occur in nature by itself in that organism (it may be, e.g., an epitopic fragment of a naturally occurring protein, or a cDNA of a naturally occurring mRNA, or even a substitution mutant of a naturally occurring sequence). Hence, the identification of an organism in <213> should not be construed as an admission that the sequence *per se* occurs in nature in said organism.

Similarly, designation of a sequence as "artificial" should not be construed as a representation that the sequence

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has no association with any organism. For example, a primer or probe may be designated as "artificial" even though it is necessarily complementary to some target sequence, which may occur in nature. Or an "artificial" sequence may be a substitution mutant of a natural sequence, or a chimera of two or more natural sequences, or a cDNA (i.e., intron-free sequence) corresponding to an intron-containing gene, or otherwise a fragment of a natural sequence.

The Examiner should be able to judge the relationship of the enumerated sequences to natural sequences by giving full consideration to the specification, the art cited therein, any further art cited in an IDS, and the results of his or her sequence search against a database containing known natural sequences.

Respectfully submitted,

BROWDY AND NEIMARK, P.L.L.C.
Attorneys for Applicant(s)

By:

Iver P. Cooper
Registration No. 28,005

IPC:lms
624 Ninth Street, N.W.
Washington, D.C. 20001
Telephone No.: (202) 628-5197
Facsimile No.: (202) 737-3528
G:\ipc\g-i\hoib\THIEL3\pto resp seqlist.wpd



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

HolB
1/2

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/537,507	Steffen Thiel	THIEL3
INTERNATIONAL APPLICATION NO.		
PCT/DK03/00827		
I.A. FILING DATE	PRIORITY DATE	
12/02/2003	12/03/2002	
CONFIRMATION NO. 4712		
371 FORMALITIES LETTER		
 OC000000018384695		

Date Mailed: 03/28/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Priority Document
- Copy of the International Application filed on 06/03/2005
- Copy of the International Search Report filed on 06/03/2005
- Copy of IPE Report filed on 06/03/2005
- Copy of Annexes to the IPER filed on 06/03/2005
- Preliminary Amendments filed on 12/02/2005
- Biochemical Sequence Diskette filed on 03/09/2006
- Oath or Declaration filed on 06/03/2005
- Biochemical Sequence Listing filed on 03/09/2006
- Request for Immediate Examination filed on 06/03/2005
- U.S. Basic National Fees filed on 06/03/2005
- Priority Documents filed on 06/03/2005
- Specification filed on 06/03/2005
- Claims filed on 06/03/2005
- Drawings filed on 06/03/2005

SEQ 4/28/06
 SES 5/2/06

DOCKETED

Applicant's response filed 03/09/2006 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 10/03/2005 have not been completed.

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

KAYA L LEWIS BALTIMORE

Telephone: (703) 308-9140 EXT 202

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/537,507	PCT/DK03/00827	THIEL3

FORM PCT/DO/EO/916 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/537,507
Source: PG
Date Processed by STIC: 3/9/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/537,507

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | | |
|----|------------------------------------|---|
| 1 | Wrapped Nucleics
Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 | Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3 | Misaligned Amino Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. |
| 4 | Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5 | Variable Length | Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 | PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7 | Skipped Sequences (OLD RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8 | Skipped Sequences (NEW RULES) | Sequence(s) _____ missing. If intentional , please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000 |
| 9 | Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10 | Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below) |
| 11 | Use of <220> | Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules |
| 12 | PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 | Misuse of n/Xaa | "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u> |



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006

TIME: 12:36:38

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\03092006\J537507.raw

see item 2 on
 Error summary
 sheet

3 <110> APPLICANT: Aarhus Universitet
 5 <120> TITLE OF INVENTION: Method for determining predisposition to
 manifestation of immune system
 6 related diseases
 8 <130> FILE REFERENCE: P 706 DK 02
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/537,507
 C--> 10 <141> CURRENT FILING DATE: 2005-06-03
 10 <160> NUMBER OF SEQ ID NOS: 8
 12 <170> SOFTWARE: PatentIn version 3.1
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 671
 16 <212> TYPE: PRT
 17 <213> ORGANISM: Homo sapiens; mature MASP-2
 19 <400> SEQUENCE: 1
 21 Thr Pro Leu Gly Pro Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Ala
 22 1 5 10 15
 25 Ser Pro Gly Phe Pro Gly Glu Tyr Ala Asn Asp Gln Glu Arg Arg Trp
 26 20 25 30
 29 Thr Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His
 30 35 40 45
 33 Phe Asp Leu Glu Leu Ser His Leu Cys Glu Tyr Asp Phe Val Lys Leu
 34 50 55 60
 37 Ser Ser Gly Ala Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr
 38 65 70 75 80
 41 Asp Thr Glu Arg Ala Pro Gly Lys Asp Thr Phe Tyr Ser Leu Gly Ser
 42 85 90 95
 45 Ser Leu Asp Ile Thr Phe Arg Ser Asp Tyr Ser Asn Glu Lys Pro Phe
 46 100 105 110
 49 Thr Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Ile Asp Glu Cys Gln
 50 115 120 125
 53 Val Ala Pro Gly Glu Ala Pro Thr Cys Asp His His Cys His Asn His
 54 130 135 140
 57 Leu Gly Gly Phe Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Arg
 58 145 150 155 160
 61 Asn Lys Arg Thr Cys Ser Ala Leu Cys Ser Gly Gln Val Phe Thr Gln
 62 165 170 175
 65 Arg Ser Gly Glu Leu Ser Ser Pro Glu Tyr Pro Arg Pro Tyr Pro Lys
 66 180 185 190
 69 Leu Ser Ser Cys Thr Tyr Ser Ile Ser Leu Glu Glu Gly Phe Ser Val
 70 195 200 205
 73 Ile Leu Asp Phe Val Glu Ser Phe Asp Val Glu Thr His Pro Glu Thr
 74 210 215 220
 77 Leu Cys Pro Tyr Asp Phe Leu Lys Ile Gln Thr Asp Arg Glu Glu His
 78 225 230 235 240

Does Not Comply
 Corrected Diskette Needed

pp 3-5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006
TIME: 12:36:38

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03092006\J537507.raw

81 Gly Pro Phe Cys Gly Lys Thr Leu Pro His Arg Ile Glu Thr Lys Ser
 82 245 250 255
 85 Asn Thr Val Thr Ile Thr Phe Val Thr Asp Glu Ser Gly Asp His Thr
 86 260 265 270
 89 Gly Trp Lys Ile His Tyr Thr Ser Thr Ala Gln Pro Cys Pro Tyr Pro
 90 275 280 285
 93 Met Ala Pro Pro Asn Gly His Val Ser Pro Val Gln Ala Lys Tyr Ile
 94 290 295 300
 97 Leu Lys Asp Ser Phe Ser Ile Phe Cys Glu Thr Gly Tyr Glu Leu Leu
 98 305 310 315 320
 101 Gln Gly His Leu Pro Leu Lys Ser Phe Thr Ala Val Cys Gln Lys Asp
 102 325 330 335
 105 Gly Ser Trp Asp Arg Pro Met Pro Ala Cys Ser Ile Val Asp Cys Gly
 106 340 345 350
 109 Pro Pro Asp Asp Leu Pro Ser Gly Arg Val Glu Tyr Ile Thr Gly Pro
 110 355 360 365
 113 Gly Val Thr Thr Tyr Lys Ala Val Ile Gln Tyr Ser Cys Glu Glu Thr
 114 370 375 380
 117 Phe Tyr Thr Met Lys Val Asn Asp Gly Lys Tyr Val Cys Glu Ala Asp
 118 385 390 395 400
 121 Gly Phe Trp Thr Ser Ser Lys Gly Glu Lys Ser Leu Pro Val Cys Glu
 122 405 410 415
 125 Pro Val Cys Gly Leu Ser Ala Arg Thr Thr Gly Gly Arg Ile Tyr Gly
 126 420 425 430
 129 Gly Gln Lys Ala Lys Pro Gly Asp Phe Pro Trp Gln Val Leu Ile Leu
 130 435 440 445
 133 Gly Gly Thr Thr Ala Ala Gly Ala Leu Leu Tyr Asp Asn Trp Val Leu
 134 450 455 460
 137 Thr Ala Ala His Ala Val Tyr Glu Gln Lys His Asp Ala Ser Ala Leu
 138 465 470 475 480
 141 Asp Ile Arg Met Gly Thr Leu Lys Arg Leu Ser Pro His Tyr Thr Gln
 142 485 490 495
 145 Ala Trp Ser Glu Ala Val Phe Ile His Glu Gly Tyr Thr His Asp Ala
 146 500 505 510
 149 Gly Phe Asp Asn Asp Ile Ala Leu Ile Lys Leu Asn Asn Lys Val Val
 150 515 520 525
 153 Ile Asn Ser Asn Ile Thr Pro Ile Cys Leu Pro Arg Lys Glu Ala Glu
 154 530 535 540
 157 Ser Phe Met Arg Thr Asp Asp Ile Gly Thr Ala Ser Gly Trp Gly Leu
 158 545 550 555 560
 161 Thr Gln Arg Gly Phe Leu Ala Arg Asn Leu Met Tyr Val Asp Ile Pro
 162 565 570 575
 165 Ile Val Asp His Gln Lys Cys Thr Ala Ala Tyr Glu Lys Pro Pro Tyr
 166 580 585 590
 169 Pro Arg Gly Ser Val Thr Ala Asn Met Leu Cys Ala Gly Leu Glu Ser
 170 595 600 605
 173 Gly Gly Lys Asp Ser Cys Arg Gly Asp Ser Gly Gly Ala Leu Val Phe
 174 610 615 620
 177 Leu Asp Ser Glu Thr Glu Arg Trp Phe Val Gly Gly Ile Val Ser Trp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006
TIME: 12:36:38

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03092006\J537507.raw

178	625	630	635	640
181	Gly Ser Met Asn Cys Gly Glu Ala Gly Gln Tyr Gly Val Tyr Thr Lys			
182	645	650	655	
185	Val Ile Asn Tyr Ile Pro Trp Ile Glu Asn Ile Ile Ser Asp Phe			
186	660	665	670	
189	<210> SEQ ID NO: 2			
190	<211> LENGTH: 170			
191	<212> TYPE: PRT			
192	<213> ORGANISM: mature MAp-19 (human)			
194	<400> SEQUENCE: 2			
196	Thr Pro Leu Gly Pro Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Ala			
197	1	5	10	15
200	Ser Pro Gly Phe Pro Gly Glu Tyr Ala Asn Asp Gln Glu Arg Arg Trp			
201	20	25	30	
204	Thr Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His			
205	35	40	45	
208	Phe Asp Leu Glu Leu Ser His Leu Cys Glu Tyr Asp Phe Val Lys Leu			
209	50	55	60	
212	Ser Ser Gly Ala Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr			
213	65	70	75	80
216	Asp Thr Glu Arg Ala Pro Gly Lys Asp Thr Phe Tyr Ser Leu Gly Ser			
217	85	90	95	
220	Ser Leu Asp Ile Thr Phe Arg Ser Asp Tyr Ser Asn Glu Lys Pro Phe			
221	100	105	110	
224	Thr Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Ile Asp Glu Cys Gln			
225	115	120	125	
228	Val Ala Pro Gly Glu Ala Pro Thr Cys Asp His His Cys His Asn His			
229	130	135	140	
232	Leu Gly Gly Phe Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Arg			
233	145	150	155	160
236	Asn Lys Arg Thr Cys Ser Glu Gln Ser Leu			
237	165	170		
240	<210> SEQ ID NO: 3			
241	<211> LENGTH: 2061			
242	<212> TYPE: DNA			
243	<213> ORGANISM: CDNA MASP-2			
245	<400> SEQUENCE: 3			
246	atgaggctgc tgaccctcct gggcccttcgt tggggctcggt tgccaccccc cttggggcccg			60
248	aagtggcctg aacctgtgtt cggggccctg gcatcccccg gctttccagg ggagtatgcc			120
250	aatgaccagg agcggcgctg gaccctgact gcaccccccgg gctaccggct ggcctctac			180
252	ttcacccact tcgaccttggaa gctctccac ctctgcgaggt acgacttcgt caagctgagc			240
254	tcggggccca aggtgctggc cacgctgtgc gggcaggaga gcacagacac ggagcgggcc			300
256	cctggcaagg acactttcta ctcgctgggc tccagctgg acattacctt ccgctccgac			360
258	tactccaacg agaagccgtt cacggggttc gaggccttct atgcagccga ggacattgac			420
260	gagtggcagg tggccccccc agagggcccc acctgcgacc accactgcca caaccacctg			480
262	ggcggtttct actgctcctg cccgcgcaggc tacgtcctgc accgttaacaa ggcacacctgc			540
264	tcagccctgt gctccggcca ggtcttcacc cagaggcttg gggagctcag cagccctgaa			600
266	taccacggc cgtatccaa actctccagt tgcacttaca gcatcagcct ggaggagggg			660
268	ttcagtgtca ttctggactt tgtggagtcc ttcgatgtgg agacacaccc tgaaaccctg			720

invalid <213> response. See item 10
on Error Summary
sheet.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006
TIME: 12:36:38.

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03092006\J537507.raw

270	tgtccctacg	actttctcaa	gattcaaaca	gacagagaag	aacatggccc	attctgtggg	780
272	aagacattgc	cccacaggat	tgaacacaaaa	agcaacacgg	tgaccatcac	cttgcaca	840
274	gatgaatcag	gagaccacac	aggctggaaag	atccactaca	cgagcacacg	gcagcctgc	900
276	ccttatccga	tggcgccacc	taatggccac	gttccacctg	tgcagccaa	atacatcctg	960
278	aaagacagct	tctccatctt	ttgcgagact	ggctatgagc	ttctgcaagg	tcacttgccc	1020
280	ctgaaaatcct	ttactgcagt	ttgtcagaaa	gatggatctt	gggaccggcc	aatgcccgcg	1080
282	tgcagcattg	ttgactgtgg	ccctcctgat	gatctaccca	gtggccqagt	ggagtacatc	1140
284	acaggtcctg	gagtgaccac	ctacaaaagct	gtgattcagt	acagctgtga	agagaccttc	1200
286	tacacaatga	aagtgaatga	tggtaaatat	gtgtgtgagg	ctgatggatt	ctggacgagc	1260
288	tccaaaggag	aaaaatcact	cccaagtctgt	gagcctgtt	gtggactatc	agccccacaca	1320
290	acaggaggc	gtatatatgg	aggcAAAAG	gcaaaaacctg	gtgatTTCC	ttggcaagtc	1380
292	ctgatattag	gtggAACAC	agcagcaggt	gcactttat	atgacaactg	ggcctaaca	1440
294	gctgctcatg	ccgtctatga	gcaaaaacat	gatgcatccg	ccctggacat	tcgaatggc	1500
296	accctgaaaa	gactatcacc	tcattataca	caaggctgg	ctgaagctgt	ttttatacat	1560
298	gaaggttata	ctcatgtgc	tggctttgac	aatgacatag	cactgattaa	attgaataac	1620
300	aaagttgtaa	tcaatagcaa	catcacgcct	atttgcgtgc	caagaaaaga	agctgaatcc	1680
302	tttatgagga	cagatgacat	tggaaactgca	tctggatggg	gattaaccca	aagggtttt	1740
304	cttgcttagaa	atctaattgt	tgtcgacata	ccgatttttg	accatcaaaa	atgtactgct	1800
306	gcatatgaaa	agccaccccta	tccaaagggg	agtgttaactg	ctaacatgct	ttgtgtggc	1860
308	ttagaaagtg	ggggcaagga	cagctgcaga	ggtgacagcg	gagggggcact	ggtgtttcta	1920
310	gatagtgaaa	cagagaggtg	gtttgtggg	ggaatagtgt	cctgggggtt	catgaattgt	1980
312	ggggaaagcag	gtcagtatgg	agtctacaca	aaagtttata	actatattcc	ctggatcgag	2040
314	aacataatta	gtgattttta	a				2061
317	<210>	SEQ ID NO:	4				
318	<211>	LENGTH:	558				
319	<212>	TYPE:	DNA			same error	
320	<213>	ORGANISM:	CDNA MAP-19				
322	<400>	SEQUENCE:	4				
323	atgaggctgc	tgaccctcct	ggcccttctg	tgtggctcg	tggccacccc	cttggggccg	60
325	aagtggcctg	aacctgtgtt	cgggcgctg	gcatcccccg	gtttccagg	ggagtatgcc	120
327	aatgaccagg	agccggcgctg	gaccctgact	gcacccccc	gttccggct	gcgcctctac	180
329	ttcacccact	tgcacctgga	gctctccac	ctctgcgagt	acgacttcgt	caagctgagc	240
331	tcgggggcca	aggtgctggc	cacgctgtgc	gggcaggaga	gcacagacac	ggagcgggccc	300
333	cctggcaagg	acactttcta	ctcgctggc	tccagcctgg	acattacctt	ccgctccgac	360
335	tactccaacg	agaaggccgtt	cacggggttc	gaggcccttct	atgcagccga	ggacattgac	420
337	gagtggcagg	tggccccggg	agaggcgccc	acctgcgacc	accactgcca	caaccacctg	480
339	ggcggtttct	actgctcctg	ccgcgcaggg	tacgtcctgc	accgtaacaa	gcmcacctgc	540
341	tcagagcaga	gcctctag					558
344	<210>	SEQ ID NO:	5				
345	<211>	LENGTH:	21				
346	<212>	TYPE:	DNA				
347	<213>	ORGANISM:	upper PCR primer				
349	<400>	SEQUENCE:	5				
350	gcgagttacga	cttcgtcaag	g				
353	<210>	SEQ ID NO:	6				
354	<211>	LENGTH:	21				
355	<212>	TYPE:	DNA				
356	<213>	ORGANISM:	lower PCR primer				
358	<400>	SEQUENCE:	6				

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006
TIME: 12:36:38

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03092006\J537507.raw

359 ctcggctgca tagaaggcct c 21
362 <210> SEQ ID NO: 7
363 <211> LENGTH: 21
364 <212> TYPE: DNA
365 <213> ORGANISM: Upper PCR primer
367 <400> SEQUENCE: 7
368 ccagacctt ggaaagttag c 21
371 <210> SEQ ID NO: 8
372 <211> LENGTH: 21
373 <212> TYPE: DNA
374 <213> ORGANISM: Lower PCR primer
376 <400> SEQUENCE: 8
377 ggctcaagtt ccaagtattg c 21

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/537,507

DATE: 03/09/2006
TIME: 12:36:39

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03092006\J537507.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date